

	U	1	Document ID	Issue Date	Pages
1	<input type="checkbox"/>	<input type="checkbox"/>	JP 04095287 A	19920327	10

	Title	Current OR
1	OPTICAL DISK MEMORY	

	Current XRef	Retrieval Classif	Inventor	S
1	369/100		TAKAHASHI, AKIRA et al.	<input checked="" type="checkbox"/>

	C	P	2	3	4	5	Image Doc. Displayed	PT
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	JP 04095287 A	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6654331 B1	20031125	14
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6631108 B1	20031007	14
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6532201 B1	20030311	17
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6480463 B2	20021112	12
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6434087 B1	20020813	251
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6418097 B1	20020709	254
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6330210 B1	20011211	9

	Title	Current OR
1	Method for accurate positioning of data marks and spaces on an optical disc	369/53.34
2	Method for accurate positioning of data marks and spaces on an optical disc	369/53.35
3	Copy protection for optical discs	369/53.21
4	Method and device for write protecting compact disk media	369/290
5	Optical disc system and method for controlling bias coil and light source to process information on a storage medium	369/13.02
6	Analog to digital converter assembly for normalizing servo error signals and multiplexing reference voltage inputs and digital outputs and improved optical drive system including same	369/44.34
7	Data structure for control information on rewriteable data storage media	369/30.11

	Current XRef	Retrieval Classif	Inventor	S
1	369/47.53; 369/53.35		Wilson, Carol J. et al.	<input checked="" type="checkbox"/>
2	369/11; 369/30.21		Hogan, Josh	<input checked="" type="checkbox"/>
3	369/53.36		Hogan, Josh	<input checked="" type="checkbox"/>
4			Hunter, Charles L. et al.	<input checked="" type="checkbox"/>
5	369/116; 369/53.26		Schell, David L. et al.	<input checked="" type="checkbox"/>
6	369/44.35		Schell, David L. et al.	<input checked="" type="checkbox"/>
7	369/47.15		Weirauch, Charles R et al.	<input checked="" type="checkbox"/>

	C	P	2	3	4	5	Image Doc. Displayed	PT
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6654331	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6631108	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6532201	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6480463	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6434087	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6418097	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6330210	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages
8	<input type="checkbox"/>	<input type="checkbox"/>	US 6317391 B1	20011113	253
9	<input type="checkbox"/>	<input type="checkbox"/>	US 6278665 B1	20010821	253
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6266306 B1	20010724	253
11	<input type="checkbox"/>	<input type="checkbox"/>	US 6243336 B1	20010605	263
12	<input type="checkbox"/>	<input type="checkbox"/>	US 6236638 B1	20010522	12
13	<input type="checkbox"/>	<input type="checkbox"/>	US 6236625 B1	20010522	254

	Title	Current OR
8	Optical disc system having current monitoring circuit with improved bias coil assembly and controller for laser driver and method for operating same	369/13.17
9	Optical disc system including current monitoring circuit assembly having controller with improved optics module and laser driver and method for operating same	369/13.22
10	Analog to digital converter and assembly for use in optical drive system to normalize servo error signals and multiplex reference voltage inputs and digital outputs	369/44.34
11	Optical disc system having servo motor and servo error detection assembly operated relative to monitored quad sum signal and focus capture method for use in same	369/44.29
12	Device to install compact disk media write protect device	369/290
13	Optical disc system having current monitoring circuit with controller for laser driver and method for operating same	369/13.22

	Current XRef	Retrieval Classif	Inventor	S
8	369/13.26		Schell, David L. et al.	<input checked="" type="checkbox"/>
9	369/13.11		Schell, David L. et al.	<input checked="" type="checkbox"/>
10			Schell, David L. et al.	<input checked="" type="checkbox"/>
11	369/44.11; 369/53.28		Schell, David L. et al.	<input checked="" type="checkbox"/>
12			Hunter, Charles L. et al.	<input checked="" type="checkbox"/>
13	369/116		Schell, David L. et al.	<input checked="" type="checkbox"/>

	C	P	2	3	4	5	Image Doc. Displayed	PT
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6317391	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6278665	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6266306	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6243336	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6236638	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6236625	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages
14	<input type="checkbox"/>	<input type="checkbox"/>	US 6134626 A	20001017	26
15	<input type="checkbox"/>	<input type="checkbox"/>	US 6122232 A	20000919	254
16	<input type="checkbox"/>	<input type="checkbox"/>	US 6091684 A	20000718	250
17	<input type="checkbox"/>	<input type="checkbox"/>	US 6087644 A	20000711	537
18	<input type="checkbox"/>	<input type="checkbox"/>	US 6081501 A	20000627	12
19	<input type="checkbox"/>	<input type="checkbox"/>	US 6069857 A	20000530	256
20	<input type="checkbox"/>	<input type="checkbox"/>	US 6058081 A	20000502	538
21	<input type="checkbox"/>	<input type="checkbox"/>	US 6034364 A	20000307	254

	Title	Current OR
14	Method and apparatus for recording data using multiple buffers	711/4
15	Isolation apparatus for use in disc drive system to mitigate effects of undesired mechanical forces and disc drive system including same	369/44.11
16	Optical disc system and method for changing the rotational rate of an information storage medium	369/53.3
17	Focus capture for optical disc system including detection of quad sum signal to close focus	250/201.5
18	Attachment system for write-protect ring for optical disk	369/290
19	Optical disc system having improved circuitry for performing blank sector check on readable disc	369/53.28
20	Optical drive system having servomotor operated relative to maximum quad sum signal	369/44.27
21	Optical disc system including focus capture assembly with focus error signal circuit and method for operating same	250/201.5

	Current XRef	Retrieval Classif	Inventor	S
14	711/111; 711/112		Inokuchi, Tatsuya et al.	<input checked="" type="checkbox"/>
15	369/44.14		Schell, David L. et al.	<input checked="" type="checkbox"/>
16			Schell, David L.	<input checked="" type="checkbox"/>
17	369/100		Schell, David L.	<input checked="" type="checkbox"/>
18			Hunter, Charles L. et al.	<input checked="" type="checkbox"/>
19	369/44.34; 369/44.35; 369/47.25; 369/53.26		Schell, David L. et al.	<input checked="" type="checkbox"/>
20	369/116; 369/44.14; 369/44.25		Schell, David L. et al.	<input checked="" type="checkbox"/>
21	369/44.27		Schell, David L.	<input checked="" type="checkbox"/>

	C	P	2	3	4	5	Image Doc. Displayed	PT
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6134626	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6122232	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6091684	<input type="checkbox"/>
17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6087644	<input type="checkbox"/>
18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6081501	<input type="checkbox"/>
19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6069857	<input type="checkbox"/>
20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6058081	<input type="checkbox"/>
21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 6034364	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages
22	<input type="checkbox"/>	<input type="checkbox"/>	US 5974007 A	19991026	250
23	<input type="checkbox"/>	<input type="checkbox"/>	US 5920539 A	19990706	257
24	<input type="checkbox"/>	<input type="checkbox"/>	US 5878015 A	19990302	250
25	<input type="checkbox"/>	<input type="checkbox"/>	US 5875158 A	19990223	531
26	<input type="checkbox"/>	<input type="checkbox"/>	US 5862451 A	19990119	25
27	<input type="checkbox"/>	<input type="checkbox"/>	US 5828054 A	19981027	536

	Title	Current OR
22	Apparatus for moving a carriage assembly from an initial position to a target position	369/30.16
23	Apparatus and method for suppression of electromagnetic emissions having a groove on an external surface for passing an electrical conductor	369/244
24	Laser driver for controlling electrical current passed to a laser in an optical disc system	369/116
25	Servo control system for information storage device	369/44.34
26	Channel quality management in a cable telephony system	725/116
27	Focusing method and system for focus capture and focus control in optical disc system including detection of Quad Sum signal to close focus	250/201.5

	Current XRef	Retrieval Classif	Inventor	S
22	369/44.28		Getreuer, Kurt W.	<input checked="" type="checkbox"/>
23			Schell, David L. et al.	<input checked="" type="checkbox"/>
24			Schell, David L. et al.	<input checked="" type="checkbox"/>
25			Schell, David L	<input checked="" type="checkbox"/>
26	348/192; 370/458; 455/452.2; 455/513; 455/62; 725/107; 725/126; 725/127		Grau, Alan L. et al.	<input checked="" type="checkbox"/>
27	369/100; 369/44.11		Schell, David L.	<input checked="" type="checkbox"/>

	C	P	2	3	4	5	Image Doc. Displayed	PT
22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5974007	<input type="checkbox"/>
23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5920539	<input type="checkbox"/>
24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5878015	<input type="checkbox"/>
25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5875158	<input type="checkbox"/>
26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5862451	<input type="checkbox"/>
27	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5828054	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages
28	<input type="checkbox"/>	<input type="checkbox"/>	US 5796703 A	19980818	252
29	<input type="checkbox"/>	<input type="checkbox"/>	US 5748578 A	19980505	257
30	<input type="checkbox"/>	<input type="checkbox"/>	US 5729511 A	19980317	544
31	<input type="checkbox"/>	<input type="checkbox"/>	US 5708633 A	19980113	113
32	<input type="checkbox"/>	<input type="checkbox"/>	US 5706047 A	19980106	11
33	<input type="checkbox"/>	<input type="checkbox"/>	US 5677899 A	19971014	537

	Title	Current OR
28	Apparatus for controlling an electrical current passed to a writing device in an optical storage system	369/116
29	Colpitts type oscillator having reduced ringing and improved optical disc system utilizing same	369/44.14
30	Optical disc system having servo motor and servo error detection assembly operated relative to monitored quad sum signal	369/44.27
31	Method and apparatus for manufacturing information storage devices	369/44.11
32	Storage media for an optical information system having an identification code embedded therein	347/262
33	Method for moving carriage assembly from initial position to target position relative to storage medium	369/44.28

	Current XRef	Retrieval Classif	Inventor	S
28	369/53.26		Schell, David L. et al.	<input checked="" type="checkbox"/>
29	331/117R; 331/75; 369/121		Schell, David L.	<input checked="" type="checkbox"/>
30	369/116; 369/13.02; 369/13.34; 369/44.29		Schell, David L. et al.	<input checked="" type="checkbox"/>
31	359/813; 369/44.14		Hollen, Zdenek A. et al.	<input checked="" type="checkbox"/>
32	235/436; 235/462.03; 346/135.1		Lentz, Joseph et al.	<input checked="" type="checkbox"/>
33			Getreuer, Kurt W.	<input checked="" type="checkbox"/>

	C	P	2	3	4	5	Image Doc. Displayed	PT
28	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5796703	<input type="checkbox"/>
29	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5748578	<input type="checkbox"/>
30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5729511	<input type="checkbox"/>
31	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5708633	<input type="checkbox"/>
32	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5706047	<input type="checkbox"/>
33	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5677899	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages
34	<input type="checkbox"/>	<input type="checkbox"/>	US 5607739 A	19970304	8
35	<input type="checkbox"/>	<input type="checkbox"/>	US 5341360 A	19940823	9

	Title	Current OR
34	Temperature sensor and method for optical disk	428/64.1
35	Method and apparatus for calibrating laser write power by averaging upper and lower knees of a calibration profile	369/47.53

	Current XRef	Retrieval Classif	Inventor	S
34	369/275.1; 369/283; 369/288; 428/64.2; 428/64.4; 428/64.8; 428/913; 430/270.1; 430/270.11; 430/270.14; 430/495.1; 430/945		Bartholomeusz, Brian J.	<input checked="" type="checkbox"/>
35	369/116; 369/53.12; 369/53.27; 369/53.35		Johann, Donald F. et al.	<input checked="" type="checkbox"/>

	C	P	2	3	4	5	Image Doc. Displayed	PT
34	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5607739	<input type="checkbox"/>
35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US 5341360	<input type="checkbox"/>

L Number	Hits	Search Text	DB	Time stamp
1	3026	akira near1 takahashi	USPAT; EPO; JPO	2003/12/17 12:18
2	236	(akira near1 takahashi) and optical adj (disk or disc)	USPAT; EPO; JPO	2003/12/17 12:19
3	1	((akira near1 takahashi) and optical adj (disk or disc)) and seal	USPAT; EPO; JPO	2003/12/17 12:20
4	1	((akira near1 takahashi) and optical adj (disk or disc)) and (recording near2 inhibit\$)	USPAT; EPO; JPO	2003/12/17 12:22
6	5	((akira near1 takahashi) and optical adj (disk or disc)) and recording) and detach\$	USPAT; EPO; JPO	2003/12/17 12:23
5	212	((akira near1 takahashi) and optical adj (disk or disc)) and recording	USPAT; EPO; JPO	2003/12/17 12:52
7	35	((akira near1 takahashi) and optical adj (disk or disc)) and recording) and (tetsuya near1 inui)	USPAT; EPO; JPO	2003/12/17 12:53
8	31	((akira near1 takahashi) and optical adj (disk or disc)) and recording) and (tetsuya near1 inui)) and (ota nea1 kenji)	USPAT; EPO; JPO	2003/12/17 12:53

L Number	Hits	Search Text	DB	Time stamp
1	75833	optical adj (disk or disc)	USPAT; EPO; JPO	2003/12/17 13:04
2	230	(optical adj (disk or disc)) and (power adj calibrat\$)	USPAT; EPO; JPO	2003/12/17 13:05
3	35	((optical adj (disk or disc)) and (power adj calibrat\$)) and data and ring	USPAT; EPO; JPO	2003/12/17 13:05
4	1		USPAT	2003/12/17 13:11
5	1		USPAT	2003/12/17 13:11
6	1		USPAT	2003/12/17 13:12
7	1		USPAT	2003/12/17 13:12
8	1		USPAT	2003/12/17 13:12

L1 0 S PROGRAM(2W)CALIBRATION(2W)AREA
 L2 42 S POWER(2W)CALIBRATION(2W)AREA
 L3 14 S L2 AND DISK
 L4 39 S L2 AND DISC
 L5 6 S L3 AND DATA AREA
 L6 0 S L5 AND RING
 L7 0 S L4 AND RING
 L8 23 S L4 AND DATA AREA
 L9 4 S L8 AND CALIBRAT?(2W)LASER

=> d 15 1-6

1. 5,721,856, Feb. 24, 1998, Optical **disk** write method; Toshio Takeuchi, 1/1; 369/32, 58 [IMAGE AVAILABLE]
2. 5,701,282, Dec. 23, 1997, Optical **disk** device capable of displaying the whole capacity and the reproduction position on the optical **disk**; Kissei Matsumoto, et al., 369/32, 58 [IMAGE AVAILABLE]
3. 5,617,383, Apr. 1, 1997, Optical **disk** device capable of displaying the whole capacity and the reproduction position on the optical **disk**; Kissei Matsumoto, et al., 369/32, 54, 56 [IMAGE AVAILABLE]
4. 5,561,644, Oct. 1, 1996, Short seeking time optical disc apparatus; Masamichi Kondo, 369/32, 33, 47, 48, 50, 54 [IMAGE AVAILABLE]
5. 5,537,387, Jul. 16, 1996, Information storage **disk** with display data recorded in a lead-in region and an apparatus for recording and/reproducing the disc; Ryo Ando, et al., 369/275.1, 58, 275.3 [IMAGE AVAILABLE]
6. 5,521,900, May 28, 1996, **Disk** having a lead-in region containing display data and an apparatus for recording and/or reproducing the disc; Ryo Ando, et al., 369/275.1, 32, 53, 59, 275.3 [IMAGE AVAILABLE]

=> d 19 1-4

1. 5,818,807, Oct. 6, 1998, Optical medium having a test recording area and method for recording test data thereon; Kazuo Kuroda, et al., 369/116, 58, 275.3 [IMAGE AVAILABLE]
2. 5,799,212, Aug. 25, 1998, Efficient recording medium; Takashi Ohmori, 710/73; 369/13, 14, 32, 48; 707/100; 710/74 [IMAGE AVAILABLE]
3. 5,737,639, Apr. 7, 1998, Method and apparatus for the recording and reproducing of data on a storage medium; Takashi Ohmori, 710/73; 369/13, 124, 275.3; 711/4, 100 [IMAGE AVAILABLE]
4. 5,687,397, Nov. 11, 1997, System for expansion of data storage medium to store user data; Takashi Ohmori, 710/73; 369/13, 14, 32, 48; 707/100; 710/74 [IMAGE AVAILABLE]